

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:15:34 ON 12 JUN 2002

=> fil .bec,canc
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS, CANCERLIT' ENTERED AT 16:16:13 ON 12 JUN 2002
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

12 FILES IN THE FILE LIST

=> s galactosyltransferase# or galactosyl(w)transferase#
FILE 'MEDLINE'

	2671 GALACTOSYLTRANSFERASE#
	3607 GALACTOSYL
	40080 TRANSFERASE#
	282 GALACTOSYL(W) TRANSFERASE#
L1	2805 GALACTOSYLTRANSFERASE# OR GALACTOSYL(W) TRANSFERASE#

FILE 'SCISEARCH'

	2108 GALACTOSYLTRANSFERASE#
	2221 GALACTOSYL
	33452 TRANSFERASE#
	220 GALACTOSYL(W) TRANSFERASE#
L2	2278 GALACTOSYLTRANSFERASE# OR GALACTOSYL(W) TRANSFERASE#

FILE 'LIFESCI'

	577 GALACTOSYLTRANSFERASE#
	718 GALACTOSYL
	11457 TRANSFERASE#
	69 GALACTOSYL(W) TRANSFERASE#
L3	627 GALACTOSYLTRANSFERASE# OR GALACTOSYL(W) TRANSFERASE#

FILE 'BIOTECHDS'

	197 GALACTOSYLTRANSFERASE#
	237 GALACTOSYL
	1842 TRANSFERASE#
	19 GALACTOSYL(W) TRANSFERASE#
L4	211 GALACTOSYLTRANSFERASE# OR GALACTOSYL(W) TRANSFERASE#

FILE 'BIOSIS'

	2445 GALACTOSYLTRANSFERASE#
	4428 GALACTOSYL
	65443 TRANSFERASE#
	1188 GALACTOSYL(W) TRANSFERASE#
L5	3210 GALACTOSYLTRANSFERASE# OR GALACTOSYL(W) TRANSFERASE#

FILE 'EMBASE'

	2063 GALACTOSYLTRANSFERASE#
	2177 GALACTOSYL
	30359 TRANSFERASE#
	259 GALACTOSYL(W) TRANSFERASE#
L6	2169 GALACTOSYLTRANSFERASE# OR GALACTOSYL(W) TRANSFERASE#

FILE 'HCAPLUS'

	3070 GALACTOSYLTRANSFERASE#
	4627 GALACTOSYL
	39977 TRANSFERASE#
	443 GALACTOSYL(W) TRANSFERASE#
L7	3331 GALACTOSYLTRANSFERASE# OR GALACTOSYL(W) TRANSFERASE#

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FILE 'NTIS'
    3 GALACTOSYLTRANSFERASE#
    15 GALACTOSYL
    957 TRANSFERASE#
    1 GALACTOSYL(W) TRANSFERASE#
L8      4 GALACTOSYLTRANSFERASE# OR GALACTOSYL(W) TRANSFERASE#

FILE 'ESBIOBASE'
    625 GALACTOSYLTRANSFERASE#
    667 GALACTOSYL
    24083 TRANSFERASE#
    68 GALACTOSYL(W) TRANSFERASE#
L9      679 GALACTOSYLTRANSFERASE# OR GALACTOSYL(W) TRANSFERASE#

FILE 'BIOTECHNO'
    1019 GALACTOSYLTRANSFERASE#
    846 GALACTOSYL
    14143 TRANSFERASE#
    86 GALACTOSYL(W) TRANSFERASE#
L10     1049 GALACTOSYLTRANSFERASE# OR GALACTOSYL(W) TRANSFERASE#

FILE 'WPIDS'
    77 GALACTOSYLTRANSFERASE#
    363 GALACTOSYL
    3507 TRANSFERASE#
    59 GALACTOSYL(W) TRANSFERASE#
L11     121 GALACTOSYLTRANSFERASE# OR GALACTOSYL(W) TRANSFERASE#

FILE 'CANCERLIT'
    622 GALACTOSYLTRANSFERASE#
    1002 GALACTOSYL
    11304 TRANSFERASE#
    74 GALACTOSYL(W) TRANSFERASE#
L12     668 GALACTOSYLTRANSFERASE# OR GALACTOSYL(W) TRANSFERASE#

TOTAL FOR ALL FILES
L13     17152 GALACTOSYLTRANSFERASE# OR GALACTOSYL(W) TRANSFERASE#

=> s gb3 or cd77 or globotriaosylceramide
FILE 'MEDLINE'
    252 GB3
    83 CD77
    367 GLOBOTRIAOSYLCERAMIDE
L14     540 GB3 OR CD77 OR GLOBOTRIAOSYLCERAMIDE

FILE 'SCISEARCH'
    221 GB3
    86 CD77
    218 GLOBOTRIAOSYLCERAMIDE
L15     435 GB3 OR CD77 OR GLOBOTRIAOSYLCERAMIDE

FILE 'LIFESCI'
    59 GB3
    45 CD77
    88 GLOBOTRIAOSYLCERAMIDE
L16     157 GB3 OR CD77 OR GLOBOTRIAOSYLCERAMIDE

FILE 'BIOTECHDS'
    11 GB3
    2 CD77
    4 GLOBOTRIAOSYLCERAMIDE
L17     14 GB3 OR CD77 OR GLOBOTRIAOSYLCERAMIDE

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FILE 'BIOSIS'
269 GB3
114 CD77
295 GLOBOTRIAOSYLCERAMIDE
L18 563 GB3 OR CD77 OR GLOBOTRIAOSYLCERAMIDE

FILE 'EMBASE'
234 GB3
81 CD77
314 GLOBOTRIAOSYLCERAMIDE
L19 466 GB3 OR CD77 OR GLOBOTRIAOSYLCERAMIDE

FILE 'HCAPLUS'
275 GB3
103 CD77
328 GLOBOTRIAOSYLCERAMIDE
L20 561 GB3 OR CD77 OR GLOBOTRIAOSYLCERAMIDE

FILE 'NTIS'
0 GB3
0 CD77
0 GLOBOTRIAOSYLCERAMIDE
L21 0 GB3 OR CD77 OR GLOBOTRIAOSYLCERAMIDE

FILE 'ESBIOBASE'
86 GB3
59 CD77
112 GLOBOTRIAOSYLCERAMIDE
L22 210 GB3 OR CD77 OR GLOBOTRIAOSYLCERAMIDE

FILE 'BIOTECHNO'
60 GB3
54 CD77
186 GLOBOTRIAOSYLCERAMIDE
L23 245 GB3 OR CD77 OR GLOBOTRIAOSYLCERAMIDE

FILE 'WPIDS'
23 GB3
6 CD77
6 GLOBOTRIAOSYLCERAMIDE
L24 30 GB3 OR CD77 OR GLOBOTRIAOSYLCERAMIDE

FILE 'CANCERLIT'
88 GB3
53 CD77
128 GLOBOTRIAOSYLCERAMIDE
L25 195 GB3 OR CD77 OR GLOBOTRIAOSYLCERAMIDE

TOTAL FOR ALL FILES
L26 3416 GB3 OR CD77 OR GLOBOTRIAOSYLCERAMIDE

=> s l26(w)synthase#
FILE 'MEDLINE'
63111 SYNTHASE#
L27 10 L14 (W) SYNTHASE#

FILE 'SCISEARCH'
71274 SYNTHASE#
L28 9 L15 (W) SYNTHASE#

FILE 'LIFESCI'
18159 SYNTHASE#
L29 4 L16 (W) SYNTHASE#

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FILE 'BIOTECHDS'
      3646 SYNTHASE#
L30      1 L17 (W) SYNTHASE#

FILE 'BIOSIS'
      70594 SYNTHASE#
L31      13 L18 (W) SYNTHASE#

FILE 'EMBASE'
      62561 SYNTHASE#
L32      9 L19 (W) SYNTHASE#

FILE 'HCAPLUS'
      64272 SYNTHASE#
L33      12 L20 (W) SYNTHASE#

FILE 'NTIS'
      186 SYNTHASE#
L34      0 L21 (W) SYNTHASE#

FILE 'ESBIOBASE'
      27214 SYNTHASE#
L35      5 L22 (W) SYNTHASE#

FILE 'BIOTECHNO'
      24323 SYNTHASE#
L36      6 L23 (W) SYNTHASE#

FILE 'WPIDS'
      2538 SYNTHASE#
L37      0 L24 (W) SYNTHASE#

FILE 'CANCERLIT'
      10539 SYNTHASE#
L38      1 L25 (W) SYNTHASE#

TOTAL FOR ALL FILES
L39      70 L26 (W) SYNTHASE#

=> s 113 and 126
FILE 'MEDLINE'
L40      27 L1 AND L14

FILE 'SCISEARCH'
L41      17 L2 AND L15

FILE 'LIFESCI'
L42      6 L3 AND L16

FILE 'BIOTECHDS'
L43      0 L4 AND L17

FILE 'BIOSIS'
L44      25 L5 AND L18

FILE 'EMBASE'
L45      21 L6 AND L19

FILE 'HCAPLUS'
L46      29 L7 AND L20

FILE 'NTIS'
L47      0 L8 AND L21

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FILE 'ESBIOBASE'
 L48 9 L9 AND L22

 FILE 'BIOTECHNO'
 L49 15 L10 AND L23

 FILE 'WPIDS'
 L50 0 L11 AND L24

 FILE 'CANCERLIT'
 L51 13 L12 AND L25

 TOTAL FOR ALL FILES
 L52 162 L13 AND L26

 => s (l39 or l52) not 2001-2002/py
 FILE 'MEDLINE'
 690484 2001-2002/PY
 L53 25 (L27 OR L40) NOT 2001-2002/PY

 FILE 'SCISEARCH'
 1296685 2001-2002/PY
 L54 15 (L28 OR L41) NOT 2001-2002/PY

 FILE 'LIFESCI'
 111931 2001-2002/PY
 L55 6 (L29 OR L42) NOT 2001-2002/PY

 FILE 'BIOTECHDS'
 16323 2001-2002/PY
 L56 1 (L30 OR L43) NOT 2001-2002/PY

 FILE 'BIOSIS'
 637017 2001-2002/PY
 L57 26 (L31 OR L44) NOT 2001-2002/PY

 FILE 'EMBASE'
 576285 2001-2002/PY
 L58 22 (L32 OR L45) NOT 2001-2002/PY

 FILE 'HCAPLUS'
 1369614 2001-2002/PY
 L59 27 (L33 OR L46) NOT 2001-2002/PY

 FILE 'NTIS'
 0 2001-2002/PY
 L60 0 (L34 OR L47) NOT 2001-2002/PY

 FILE 'ESBIOBASE'
 373477 2001-2002/PY
 L61 8 (L35 OR L48) NOT 2001-2002/PY

 FILE 'BIOTECHNO'
 156436 2001-2002/PY
 L62 14 (L36 OR L49) NOT 2001-2002/PY

 FILE 'WPIDS'
 1238803 2001-2002/PY
 L63 0 (L37 OR L50) NOT 2001-2002/PY

 FILE 'CANCERLIT'
 19530 2001-2002/PY
 L64 13 (L38 OR L51) NOT 2001-2002/PY

TOTAL FOR ALL FILES

L65 157 (L39 OR L52) NOT 2001-2002/PY

=> dup rem l65

PROCESSING IS APPROXIMATELY 77% COMPLETE FOR L65

PROCESSING COMPLETED FOR L65

L66 45 DUP REM L65 (112 DUPLICATES REMOVED)

=> d tot

L66 ANSWER 1 OF 45 MEDLINE DUPLICATE 1
 TI Expression cloning of human globoside synthase cDNAs. Identification of beta 3Gal-T3 as UDP-N-acetylgalactosamine:**globotriaosylceramide** beta 1,3-N-acetylgalactosaminyltransferase.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Dec 22) 275 (51) 40498-503.
 Journal code: 2985121R. ISSN: 0021-9258.
 AU Okajima T; Nakamura Y; Uchikawa M; Haslam D B; Numata S I; Furukawa K; Urano T; Furukawa K
 AN 2001098546 MEDLINE

L66 ANSWER 2 OF 45 MEDLINE DUPLICATE 2
 TI Molecular basis for the p phenotype. Identification of distinct and multiple mutations in the alpha 1,4-**galactosyltransferase** gene in Swedish and Japanese individuals.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Dec 1) 275 (48) 37752-6.
 Journal code: 2985121R. ISSN: 0021-9258.
 AU Furukawa K; Iwamura K; Uchikawa M; Sojka B N; Wiels J; Okajima T; Urano T; Furukawa K
 AN 2001078290 MEDLINE

L66 ANSWER 3 OF 45 MEDLINE DUPLICATE 3
 TI Cloning of **Gb3 synthase**, the key enzyme in globo-series glycosphingolipid synthesis, predicts a family of alpha 1, 4-glycosyltransferases conserved in plants, insects, and mammals.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Aug 18) 275 (33) 25315-21.
 Journal code: 2985121R. ISSN: 0021-9258.
 AU Keusch J J; Manzella S M; Nyame K A; Cummings R D; Baenziger J U
 AN 2000437179 MEDLINE

L66 ANSWER 4 OF 45 MEDLINE DUPLICATE 4
 TI Molecular cloning of **globotriaosylceramide/CD77 synthase**, a glycosyltransferase that initiates the synthesis of globo series glycosphingolipids.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 May 19) 275 (20) 15152-6.
 Journal code: 2985121R. ISSN: 0021-9258.
 AU Kojima Y; Fukumoto S; Furukawa K; Okajima T; Wiels J; Yokoyama K; Suzuki Y; Urano T; Ohta M; Furukawa K
 AN 2000270223 MEDLINE

L66 ANSWER 5 OF 45 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI
 TI Retro virus transfection of Madin-Darby canine kidney cells with human MDR1 results in a major increase in globotriaosylceramide and 10(5)- to 10(6)-fold increased cell sensitivity to verocytotoxin; virus vector-mediated multidrug resistance and Escherichia coli verotoxin gene transfer and expression in MD cell culture for cancer gene therapy
 SO J.Biol.Chem.; (2000) 275, 9, 6246-51
 CODEN: JBCHA3 ISSN: 0021-9258
 AU Lala P; Ito S; *Lingwood C A
 AN 2000-04839 BIOTECHDS

L66 ANSWER 6 OF 45 HCAPLUS COPYRIGHT 2002 ACS
 TI Cytotoxic effect of Shiga toxin-1 on human glomerular epithelial cells
 SO Kidney International (2000), 57(6), 2350-2359

CODEN: KDYIA5; ISSN: 0085-2538

AU Hughes, Alisa K.; Stricklett, Peter K.; Schmid, Doug; Kohan, Donald E.
AN 2000:424377 HCAPLUS
DN 134:26338

L66 ANSWER 7 OF 45 MEDLINE
TI Identification of B cells with receptors for alpha-Gal epitopes (Galalpha
1-3Galbetal-4GlcNac-R) in xenograft recipients.
SO TRANSPLANTATION PROCEEDINGS, (2000 Aug) 32 (5) 857-8.
Journal code: 0243532. ISSN: 0041-1345.
AU Tanemura M; Galili U
AN 2000423353 MEDLINE

L66 ANSWER 8 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Molecular cloning and expression of CD77/**GB3 synthase**
gene that initiates the synthesis of globo-series glycosphingolipids.
SO Glycoconjugate Journal, (January February, 2000) Vol. 17, No. 1-2, pp. 64.
print.
Meeting Info.: Second International Glycosyltransferase Symposium Toronto,
Ontario, Canada May 12-14, 2000
ISSN: 0282-0080.
AU Kojima, Yoshinao (1); Furukawa, Keiko (1); Fukumoto, Satoshi (1); Okajima,
Tetsuya (1); Wiels, Joelle; Furukawa, Koichi (1)
AN 2001:93163 BIOSIS

L66 ANSWER 9 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Cloning and expression of the Pk/**CD77** synthetase.
SO Tissue Antigens, (2000) Vol. 55, No. Supplement 1, pp. 32-33. print.
Meeting Info.: 7th Workshop and Conference on Human Leucocyte
Differentiation Antigens Harrogate, England, UK June 20-24, 2000
ISSN: 0001-2815.
AU Steffensen, R. (1); Carlier, K.; Levery, S. B.; Cedergren, B.;
Nilsson-Sojka, B.; Bennet, E. P. (1); Jersild, C.; Clausen, H. (1); Wiels,
J.
AN 2000:514351 BIOSIS

L66 ANSWER 10 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Cloning and expression of the histo-blood group Pk UDP-galactose:
Gal^fwdarw1-4Glc^fwdarw1-Cer^fwdarw1,4-**galactosyltransferase**.
SO Vox Sanguinis, (July, 2000) Vol. 78, No. Suppl. 1, pp. 0002. print.
Meeting Info.: 26th Congress of the International Society of Blood
Transfusion Vienna, Austria July 09-14, 2000 International Society of
Blood Transfusion
. ISSN: 0042-9007.
AU Steffensen, Rudi (1); Carlier, Karine; Wiels, Joelle; Levery, Steven B.;
Stroud, Mark; Cedergren, Bertill; Nilsson, Birgitta; Bennett, Eric P. (1);
Jersild, Casper; Clausen, Henrik (1)
AN 2000:376707 BIOSIS

L66 ANSWER 11 OF 45 HCAPLUS COPYRIGHT 2002 ACS
TI Gene probes used for genetic profiling in healthcare screening and
planning
SO PCT Int. Appl., 745 pp.
CODEN: PIXXD2
IN Roberts, Gareth Wyn
AN 1999:795994 HCAPLUS
DN 132:31744

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9964627	A2	19991216	WO 1999-GB1780	19990604
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,				

TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
 MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

- L66 ANSWER 12 OF 45 MEDLINE DUPLICATE 6
 TI Up-regulation of neutral glycosphingolipid synthesis upon long term inhibition of ceramide synthesis by fumonisin B1.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Feb 19) 274 (8) 4607-12.
 Journal code: 2985121R. ISSN: 0021-9258.
 AU Meivar-Levy I; Futerman A H
 AN 1999143115 MEDLINE
- L66 ANSWER 13 OF 45 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.DUPLICATE 7
 TI Cytotoxic effect of Shiga toxin-1 on human proximal tubule cells.
 SO Kidney International, (1998) 54/2 (426-437).
 Refs: 32
 ISSN: 0085-2538 CODEN: KDYIA5
 AU Hughes A.K.; Stricklett P.K.; Kohan D.E.
 AN 1998259606 EMBASE
- L66 ANSWER 14 OF 45 MEDLINE DUPLICATE 8
 TI Changes in composition of newly synthesized sphingolipids of HeLa cells during the cell cycle -- suppression of sphingomyelin and higher-glycosphingolipid synthesis and accumulation of ceramide and glucosylceramide in mitotic cells.
 SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (1997 Oct 15) 249 (2) 450-5.
 Journal code: 0107600. ISSN: 0014-2956.
 AU Yokoyama K; Suzuki M; Kawashima I; Karasawa K; Nojima S; Enomoto T; Tai T; Suzuki A; Setaka M
 AN 1998036120 MEDLINE
- L66 ANSWER 15 OF 45 HCAPLUS COPYRIGHT 2002 ACS
 TI Accumulation of glycosphingolipids in human atherosclerotic plaque and unaffected aorta tissues
 SO Glycobiology (1997), 7(1), 57-65
 CODEN: GLYCE3; ISSN: 0959-6658
 AU Chatterjee, Subroto B.; Dey, Srabani; Shi, Wan Yang; Thomas, Karl; Hutchins, Grover M.
 AN 1997:137187 HCAPLUS
 DN 126:249640
- L66 ANSWER 16 OF 45 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.DUPLICATE 9
 TI N-acetylglucosaminyl transferase regulates the expression of the sulfoglucuronyl glycolipids in specific cell types in cerebellum during development.
 SO Journal of Biological Chemistry, (1996) 271/46 (28868-28874).
 ISSN: 0021-9258 CODEN: JBCHA3
 AU Chou D.K.H.; Jungalwala F.B.
 AN 96348057 EMBASE
- L66 ANSWER 17 OF 45 SCISEARCH COPYRIGHT 2002 ISI (R)
 TI HISTO-BLOOD GROUP-P - BIOSYNTHESIS OF GLOBOSERIES GLYCOLIPIDS IN EBV-TRANSFORMED B-CELL LINES
 SO GLYCOCONJUGATE JOURNAL, (AUG 1996) Vol. 13, No. 4, pp. 529-535.
 ISSN: 0282-0080.
 AU WIELS J (Reprint); TAGA S; TETAUD C; CEDERGREN B; NILSSON B; CLAUSEN H
 AN 96:627997 SCISEARCH
- L66 ANSWER 18 OF 45 SCISEARCH COPYRIGHT 2002 ISI (R) DUPLICATE 10
 TI STUDIES OF THE ACTION OF CERAMIDE-LIKE SUBSTANCES (D-PDMP AND L-PDMP) ON SPHINGOLIPID GLYCOSYLTRANSFERASES AND PURIFIED LACTOSYLCERAMIDE SYNTHASE
 SO GLYCOCONJUGATE JOURNAL, (JUN 1996) Vol. 13, No. 3, pp. 481-486.

ISSN: 0282-0080.

AU CHATTERJEE S (Reprint); CLEVELAND T; SHI W Y; INOKUCHI J I; RADIN N S
AN 96:436325 SCISEARCH

L66 ANSWER 19 OF 45 MEDLINE DUPLICATE 11

TI Tumor necrosis factor alpha induces endothelial **galactosyl transferase** activity and verocytotoxin receptors. Role of specific tumor necrosis factor receptors and protein kinase C.

SO BLOOD, (1995 Feb 1) 85 (3) 734-43.

Journal code: 7603509. ISSN: 0006-4971.

AU van de Kar N C; Kooistra T; Vermeer M; Lesslauer W; Monnens L A; van Hinsbergh V W

AN 95134906 MEDLINE

L66 ANSWER 20 OF 45 MEDLINE DUPLICATE 12

TI Alpha 1,4galactosyltransferase activity and Gb3Cer expression in human leukaemia/lymphoma cell lines.

SO GLYCOCONJUGATE JOURNAL, (1995 Oct) 12 (5) 680-9.

Journal code: 8603310. ISSN: 0282-0080.

AU Stults C L; Larsen R D; Macher B A

AN 96121431 MEDLINE

L66 ANSWER 21 OF 45 MEDLINE DUPLICATE 13

TI Differential regulation of glycosphingolipid biosynthesis in phenotypically distinct Burkitt's lymphoma cell lines.

SO INTERNATIONAL JOURNAL OF CANCER, (1995 Apr 10) 61 (2) 261-7.

Journal code: 0042124. ISSN: 0020-7136.

AU Taga S; Mangeney M; Tursz T; Wiels J

AN 95221057 MEDLINE

L66 ANSWER 22 OF 45 LIFESCI COPYRIGHT 2002 CSA DUPLICATE 14

TI Butyrate induces **Gb3-galactosyltransferase** and synthesis of the Shiga toxin receptor, **Gb3**, in Madin Darby canine kidney cells

SO IMMUNOL. INFECT. DIS., (1995) vol. 5, no. 4, pp. 260-265.

ISSN: 0959-4957.

AU Keusch, G.T.; Mobassaleh, M.; Acheson, D.W.K.; Jacewicz, M.S.

AN 96:64941 LIFESCI

L66 ANSWER 23 OF 45 MEDLINE DUPLICATE 15

TI Sequential changes in glycolipid expression during human B cell differentiation: enzymatic bases.

SO BIOCHIMICA ET BIOPHYSICA ACTA, (1995 Jan 3) 1254 (1) 56-65.

Journal code: 0217513. ISSN: 0006-3002.

AU Taga S; Tetaud C; Mangeney M; Tursz T; Wiels J

AN 95110864 MEDLINE

L66 ANSWER 24 OF 45 MEDLINE DUPLICATE 16

TI Developmentally regulated **Gb3 galactosyltransferase** and alpha-galactosidase determine Shiga toxin receptors in intestine.

SO AMERICAN JOURNAL OF PHYSIOLOGY, (1994 Oct) 267 (4 Pt 1) G618-24.

Journal code: 0370511. ISSN: 0002-9513.

AU Mobassaleh M; Koul O; Mishra K; McCluer R H; Keusch G T

AN 95029884 MEDLINE

L66 ANSWER 25 OF 45 SCISEARCH COPYRIGHT 2002 ISI (R)

TI DEVELOPMENTALLY-REGULATED GB(3) **GALACTOSYLTRANSFERASE** AND ALPHA-GALACTOSIDASE DETERMINE SHIGA TOXIN RECEPTORS IN INTESTINE

SO AMERICAN JOURNAL OF PHYSIOLOGY-GASTROINTESTINAL AND LIVER PHYSIOLOGY, (OCT 1994) Vol. 30, No. 4, pp. G618-G624.

ISSN: 0193-1857.

AU MOBASSALEH M (Reprint); KOUL O; MISHRA K; MCCLUER R H; KEUSCH G T

AN 95:36018 SCISEARCH

L66 ANSWER 26 OF 45 Elsevier BIOBASE COPYRIGHT 2002 Elsevier Science B.V.
 AN 1994172612 ESBIODASE
 TI Developmentally regulated **Gb3 galactosyltransferase**
 and alpha-galactosidase determine Shiga toxin receptors in intestine
 AU Mobassaleh M.; Koul O.; Mishra K.; McCluer R.H.; Keusch G.T.
 CS M. Mobassaleh, United States.
 SO (1994), 267/4 part 1 (G618-G624)
 ISSN: 0002-9513
 DT Journal; Article
 LA English
 SL English

L66 ANSWER 27 OF 45 MEDLINE DUPLICATE 17
 TI Activation of UDP-galactose:**globotriaosylceramide** alpha 1-3-
galactosyltransferase during PC12D cell differentiation induced by
 galactosylceramide.
 SO BIOCHEMISTRY, (1993 Aug 10) 32 (31) 7904-8.
 Journal code: 0370623. ISSN: 0006-2960.
 AU Ariga T; Yoshino H; Ren S; Pal S; Katoh-Semba R; Yu R K
 AN 93349873 MEDLINE

L66 ANSWER 28 OF 45 MEDLINE DUPLICATE 18
 TI A quantitative immunostaining method for the measurement of
 UDP-galactose:lactosylceramide **galactosyltransferase** for the
 synthesis of **globotriaosylceramide** in rabbit small intestine and
 HeLa cells.
 SO ANALYTICAL BIOCHEMISTRY, (1993 Oct) 214 (1) 295-300.
 Journal code: 0370535. ISSN: 0003-2697.
 AU Mobassaleh M; Mishra K; Keusch G T
 AN 94071084 MEDLINE

L66 ANSWER 29 OF 45 HCAPLUS COPYRIGHT 2002 ACS
 TI UDP-galactose:lactosylceramide .alpha.-**galactosyltransferase**
 activity in human placenta
 SO Glycoconjugate J. (1993), 10(2), 165-9
 CODEN: GLJOEW; ISSN: 0282-0080
 AU Lampio, Anja; Airaksinen, Antero; Maaheimo, Hannu
 AN 1994:213274 HCAPLUS
 DN 120:213274

L66 ANSWER 30 OF 45 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.DUPLICATE 19
 TI Brefeldin A induced inhibition of de novo globo- and neolacto-series
 glycolipid core chain biosynthesis in human cells. Evidence for an effect
 on .beta.1.fwdarw.4galactosyltransferase activity.
 SO Journal of Biological Chemistry, (1992) 267/35 (25328-25336).
 ISSN: 0021-9258 CODEN: JBCHA3
 AU Sherwood A.L.; Holmes E.H.
 AN 92371302 EMBASE

L66 ANSWER 31 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI THE DEVELOPMENTAL PATTERN OF THE REGULATORY ENZYMES INVOLVED IN THE
 SYNTHESIS AND BREAKDOWN OF THE SHIGA TOXIN RECEPTOR IN RABBIT SMALL
 INTESTINE.
 SO DIGESTIVE DISEASE WEEK AND THE 93RD ANNUAL MEETING OF THE AMERICAN
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L66 ANSWER 38 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
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L66 ANSWER 3 OF 45 MEDLINE DUPLICATE 3

AB We have cloned Gb(3) synthase, the key alpha1, 4-**galactosyltransferase** in globo-series glycosphingolipid (GSL) synthesis, via a phenotypic screen, which previously yielded iGb(3) synthase, the alpha1,3-**galactosyltransferase** required in

isogloboside series GSL (Keusch, J. J., Manzella, S. M., Nyame, K. A., Cummings, R. D., and Baenziger, J. U. (2000) J. Biol. Chem. 33). Both transferases act on lactosylceramide, Galbeta1,4Glcbeta1Cer (LacCer), to produce Gb(3) (Galalpha1,4LacCer) or iGb(3) (Galalpha1, 3LacCer), respectively. GalNAc can be added sequentially to either Gb(3) or iGb(3) yielding globoside and Forssman from Gb(3), and isogloboside and isoForssman from iGb(3). Gb(3) synthase is not homologous to iGb(3) synthase but shows 43% identity to a human alpha1,4GlcNAc transferase that transfers a UDP-sugar in an alpha1, 4-linkage to a beta-linked Gal found in mucin. Extensive homology (35% identity) is also present between Gb(3) synthase and genes in *Drosophila melanogaster* and *Arabidopsis thaliana*, supporting conserved expression of an alpha1,4-glycosyltransferase, possibly Gb(3) synthase, throughout evolution. The isolated Gb(3) synthase cDNA encodes a type II transmembrane glycosyltransferase of 360 amino acids. The highest tissue expression of Gb(3) synthase RNA is found in the kidney, mesenteric lymph node, spleen, and brain. Gb(3) glycolipid, also called P(k) antigen or **CD77**, is a known receptor for verotoxins. CHO cells that do not express Gb(3) and are resistant to verotoxin become susceptible to the toxin following transfection with Gb(3) synthase cDNA.

L66 ANSWER 5 OF 45 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI
 AB Retro virus infection of the Madin-Darby dog kidney (MD cell) cell line with human MDR1 cDNA, which encoded the P-glycoprotein (P-gp) multidrug resistance efflux pump, induced a major accumulation of the glycosphingolipid (GSL), globotriaosylceramide (Gb3), the receptor for the *Escherichia coli*-derived verotoxin (VT), to effect a increase in cell sensitivity to VT of around 1,000,000-fold. The shorter chain fatty acid isoforms of Gb3 (primarily C16 and C18) were elevated and VT was internalized to the endoplasmic reticulum/nuclear envelope. P-gp inhibitors, e.g. ketoconazole or cyclosporin-A prevented the increased Gb3 and VT sensitivity, concomitant with increased vinblastine sensitivity. In MDR1-MD cells, the levels of **Gb3-synthase** were not significantly elevated, nor where they affected by CsA. From the results obtained it was speculated that the retro virus transfection per se, or the subsequent selection for drug resistance, was a result of both MDR1 expression and a second, previously unrecognized, component. VT has been shown to be an active *E. coli* component which displays anticancer activity. (56 ref)

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L66 ANSWER 10 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

L66 ANSWER 17 OF 45 SCISEARCH COPYRIGHT 2002 ISI (R)
 AB The genetic and biosynthetic basis of the histo-blood group P-system is not fully understood. Individuals with the rare p phenotype do not express the three glycolipid antigens (P-k, P and P-1) of this system, probably because of deficiencies in glycosyltransferases involved in their biosynthesis. Iiuka et al. [Iiuka S, Chen SH, Yoshida A (1986) Biochem Biophys Res Commun 137: 1187-95], however, previously reported that detergent extracts from an EBV-transformed B cell line derived from a p individual did express the glycosyltransferase activity (P-k transferase) assumed to be missing in this blood group status. Here, we have reinvestigated the antigen expression and glycosyltransferase activities in two p individuals by analysing EBV-transformed cell lines as well as erythrocytes to confirm the blood group P status. The thin layer chromatography glycolipid profile of extracts from erythrocytes and EBV-transformed B cell lines showed characteristic accumulation of lactosylceramide and absence of P-k and P antigens. Glycosyltransferase activities of the B cell lines were analysed using glycolipid substrates and both extracts were found to contain lactosylceramide synthetase and P transferase activities but to be completely devoid of P-k transferase

activity. The presented data indicate that p individuals, in contrast to previous reports, do not express a functional P-k glycosyltransferase.

L66 ANSWER 38 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

L66 ANSWER 40 OF 45 MEDLINE

DUPLICATE 25

AB The enzyme which catalyzes the transfer of galactose from UDP-galactose to lactosylceramide (LacCer) was obtained in a 32,000-fold purified and apparently homogeneous form from rat liver by a procedure involving affinity chromatography on UDP-hexanamine-Sepharose and LacCer-Sepharose. The enzyme is composed of two nonidentical subunits whose apparent molecular weights are 65,000 and 22,000. Methylation and hydrolysis of the product formed by incubation of the enzyme with UDP-galactose and [3H]LacCer yielded 2,3,6-tri-O-methyl-[3H]galactose, indicating that a galactose residue was introduced to position C-4 of the terminal galactose of the LacCer. The product also specifically reacted with monoclonal antibody directed to **globotriaosylceramide** (Gal alpha 1-4Gal beta 1-4Glc beta 1-1Cer). This indicates that the purified enzyme is exclusively alpha 1-4-**galactosyltransferase**. Studies on substrate specificity indicate that the purified enzyme is highly specific for the synthesis of GbOse3Cer and is clearly distinct from the enzymes responsible for the formation of iGbOse3Cer (Gal alpha 1-3Gal beta 1-4Glc-Cer) and blood group-B substance, which possess alpha 1-3 galactosidic linkages at the nonreducing termini. The enzyme is also distinct from the alpha 1-4-**galactosyltransferase** which catalyzes the formation of galabiosaosylceramide (Gal alpha 1-4Gal beta 1-1Cer) and IV4Gal-nLacOse4 (P1 antigen). These studies represent the first report of the properties of a highly purified alpha-**galactosyltransferase** catalyzing the transfer of sugar residues to glycolipids.

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